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Materia: probabilidad y estadística
Cuatrimestre: 5to
BRH

PROBABILIDAD
— Plataforma —

x_i	f_i	F_i	f_r	%	$x_i \cdot f_i$	Σx^2
5	3	3	0.05	0.5%	15	75
6	4	7	0.13	13%	24	144
8	4	11	0.20	20%	82	256
12	6	17	0.32	32%	72	864
13	2	19	0.35	35%	26	338
15	4	23	0.43	43%	60	900
16	3	26	0.49	49%	48	768
20	7	33	0.62	62%	140	2800
25	8	41	0.77	77%	200	5000
32	2	43	0.81	81%	64	2048
35	3	46	0.86	86%	105	3675
40	2	48	0.90	90%	80	3200
45	3	51	0.96	96%	135	6075
75	2	53	1	1%	150	11250
					1,201	37,393

$X = 1201/53 = 22.66$

$me = 20$ //

$mo = 25$ //

Rango $= 5-75 = 70$ //

$30\% = P_{30} = \dfrac{(30)(53)}{100} = \dfrac{1590}{100} = 15.9 = 15\# = 8$ //

$50\% = P_{55} = \dfrac{55(53)}{100} = \dfrac{2915}{100} = 29.15 = 29\# = 20$ //

$75\% = P_{75} = \dfrac{75(53)}{100} = \dfrac{3975}{100} = 39.75 = 39\# = 20$ //

$S^2 = \dfrac{\Sigma x_i^2 - \dfrac{(\Sigma x_i)^2}{n}}{n-1}$

$S^2 = \dfrac{37393 - (1442401)}{\dfrac{53}{52}}$

$S^2 = \dfrac{37393 - 27215.113}{52}$

$S^2 = \dfrac{10177.887}{52}$

$S^2 = 195.72$ varianza

$S = 13.98$ (desviación)

Nor